

# UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/502,465	07/23/2004	Androula G. Nassiopoulou	30848/40323 3973		
4743 73	590 05/17/2005		EXAMINER		
	, GERSTEIN & BORU	ROSENBERGER, FREDERICK F			
233 S. WACKI SEARS TOWE	ER DRIVE, SUITE 6300 ER		ART UNIT PAPER NUMBER		
CHICAGO, IL	. 60606		2878		
			DATE MAILED: 05/17/200	DATE MAILED: 05/17/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

-	Applica	tion No.	Applicant(s)				
Office Action Summary		465	NASSIOPOULOU ET AL.				
		er	Art Unit				
		k F. Rosenberger	2878	_			
The MAILING DATE of this commo	inication appears on t	he cover sheet with the c	orrespondence ad	ldress			
A SHORTENED STATUTORY PERIOD THE MAILING DATE OF THIS COMMU - Extensions of time may be available under the provisic after SIX (6) MONTHS from the mailing date of this co - If the period for reply specified above is less than thirty - If NO period for reply is specified above, the maximum - Failure to reply within the set or extended period for re Any reply received by the Office later than three month earned patent term adjustment. See 37 CFR 1.704(b)	NICATION. ons of 37 CFR 1.136(a). In no mmunication. (30) days, a reply within the s statutory period will apply and ply will, by statute, cause the a is after the mailing date of this	event, however, may a reply be tim tatutory minimum of thirty (30) day will expire SIX (6) MONTHS from pplication to become ABANDONE	nely filed s will be considered timel the mailing date of this c D (35 U.S.C. § 133).				
Status							
1) Responsive to communication(s) f	iled on <u>23 July 2004</u> .						
2a) ☐ This action is <b>FINAL</b> .	2b)⊠ This action is	non-final.					
• • •	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) ⊠ Claim(s) <u>1-10</u> is/are pending in the 4a) Of the above claim(s) is 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-10</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to rest	/are withdrawn from o						
Application Papers							
9) The specification is objected to by 10) The drawing(s) filed on 23 July 200 Applicant may not request that any ob Replacement drawing sheet(s) including 11) The oath or declaration is objected	<u>04</u> is/are: a) ☐ accep jection to the drawing(s ng the correction is requ	) be held in abeyance. See uired if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 Cl	• •			
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim a) All b) Some * c) None of: 1. Certified copies of the priori 2. Certified copies of the priori 3. Copies of the certified copies application from the Internat	ty documents have be ty documents have be s of the priority docur tional Bureau (PCT R	een received. een received in Applicati ments have been receive ule 17.2(a)).	on No ed in this National	Stage			
Attachment(s)			·				
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review</li> <li>Information Disclosure Statement(s) (PTO-1449 Paper No(s)/Mail Date 10/25/04.</li> </ol>		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate	O-152)			

Application/Control Number: 10/502,465

Art Unit: 2878

#### **DETAILED ACTION**

Page 2

## **Priority**

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d) from the International Bureau for PCT/GR03/00003, which papers have been placed of record in the file. The International Search Report, dated 4/23/2003, for said application has also been considered.

#### **Drawings**

2. The drawings are objected to because, in Figure 5, the different curves cannot be differentiated based on the legend, and, in Figure 6b, the leader lines for reference numbers 15 and 26 cannot be seen. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filling date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are

Application/Control Number: 10/502,465 Page 3

Art Unit: 2878

not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

## Specification

- 3. The spacing of the lines of the specification is such as to make reading difficult. New application papers with lines 1½ or double spaced on good quality paper are required. See PCT Rule 11.9(c).
- 4. The disclosure is objected to because of the following informalities:

On page 6, lines 26-27, the phrase "... of thermocouples are integrated on each side of this resistor (6, 7)" should be changed to "... of thermocouples (6, 7) are integrated on each side of this resistor (4)."

On page 6, lines 40-41, the phrase "... (17) the porous silicon layer, (16) the microfluidic channel, (18, 19) the inlet and outlet of..." should be changed to "... (17) is the porous silicon layer, (16) is the microfluidic channel, (18, 19) are the inlet and outlet of...".

Appropriate correction is required.

# Claim Objections

5. The claims are objected to because the lines are crowded too closely together, making reading difficult. Substitute claims with lines one and one-half or double spaced on good quality paper are required. See 37 CFR 1.52(b) and PCT Rule 11.9(c).

Application/Control Number: 10/502,465

Art Unit: 2878

## Claim Rejections - 35 USC § 112

Page 4

6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

7. Claims 1-10 are rejected as failing to define the invention in the manner required by 35 U.S.C. 112, second paragraph.

The claim(s) are narrative in form and replete with indefinite and functional or operational language. The structure which goes to make up the device must be clearly and positively specified. The structure must be organized and correlated in such a manner as to present a complete operative device. The claim(s) must be in one sentence form only. Note the format of the claims in the patent(s) cited.

The claims are such that a proper interpretation of the limitations of the claims cannot be made. As such, the claims have not been evaluated against the prior art.

See MPEP 2173.06 and In re Steele, 305 F.2d 859, 134 USPQ 292 (CCPA 1962).

### Claim Rejections - 35 USC § 101

8. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

9. Claims 1-3 are rejected under 35 U.S.C. 101 because the claimed invention lacks patentable utility. Claims 1-3 are directed towards a fabrication method; however, applicant has failed to present the appropriate steps of the fabrication method.

Application/Control Number: 10/502,465 Page 5

Art Unit: 2878

Conclusion

10. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Frederick F. Rosenberger whose telephone number is

571-272-6107. The examiner can normally be reached on Monday-Friday 7:30 AM -

4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David Porta can be reached on 571-272-2444. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Frederick F. Rosenberger Patent Examiner

**GAU 2878** 

DAVID PORTA

SUPERVISORY PATENT EXAMINER

**TECHNOLOGY CENTER 2800**